



**Product:** [9728](#) 

RS232/422 Low Cap, #24-4pr, FPE, Indiv. Foil, PVC Jkt, CM, 100Ω

## Product Description

Computer EIA RS-232/422, Digital Audio Cable, 4-Pair, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, individually Beldfoil® shielded (100% coverage) each with 24 AWG stranded tinned copper drain wire, overall PVC jacket.

## Technical Specifications

### Product Overview

Suitable Applications:	RS-422 applications; computer communications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); digital audio; panel wiring
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### Construction Details

#### Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	4	24 AWG	7x32	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene (Foam)	0.019 in (0.48 mm)	0.061 in (1.5 mm)	Black & Red, Black & White, Black & Green, Black & Blue

#### Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC	each pair

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.048 in (1.2 mm)	0.363 in (9.22 mm)

Overall Cable Diameter (Nominal):	0.363 in (9.22 mm)
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	28.8 Ohm/1000ft	17.42 Ohm/1000ft (57.15 Ohm/km)	12.5 pF/ft (41.0 pF/m)	23.2 pF/ft (76.1 pF/m)	100 Ohm	76%	2.2 Amps per Conductor at 25°C

#### Voltage

UL Voltage Rating
300 V (CM), 30 V (UL AWM 2919)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
80°C	-20°C to +80°C

#### Bend Radius

Stationary Min.	Installation Min.
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3.6 in (91 mm)	3.6 in (91 mm)
Max. Pull Tension:	50 lbs (23 kg)
Bulk Cable Weight:	51 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 2919
CEC / C(UL) Compliance:	CM
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	89728

Product Notes

Notes:	Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.
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History

Update and Revision:	Revision Number: 0.529 Revision Date: 06-30-2022
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC/EAN
9728.0030	Chrome	Reel	30 m	8719605022400
9728 060100	Chrome	Reel	100 ft	612825257493
9728.01152	Chrome	Reel	152 m	8719605022424
9728.00305	Chrome	Reel	305 m	8719605022417
9728 060500	Chrome	Reel	500 ft	612825257516
9728 0601000	Chrome	Reel	1,000 ft	612825257509
9728.001524	Chrome	Reel	1,524 m	8719605022394
9728 0605000	Chrome	Reel	5,000 ft	612825257523

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